



forté
HEALTHCARE



ZEPHAIR

Pain Management System

MAINTENANCE & CARE

INSTRUCTIONS FOR CORRECT PRODUCT CARE
for Infection Control, Safety & Product Longevity

THANK YOU for choosing Forté Healthcare

Thank you for the opportunity to serve you and provide you with a product which has been custom made by skilled production staff in our Armidale, New England Factory.

By purchasing a Forté Healthcare product, you can be assured that you have a product that sets the benchmark for comfort, performance and quality.

We succeed in a global market space dominated by large corporate companies through our long-standing client relationships and our willingness to go the extra mile to ensure our clients receive exactly what is required.

Our transparent manufacturing process gives our clients confidence that products they receive are made to the highest possible standards of quality, care and hygiene.

At Forté Healthcare we stand behind the performance of our products with the utmost confidence. We are committed to delivering an unmatched level of client satisfaction and personal service.



DISCLAIMER

This product user manual is provided as a guide for the safe operation of the Forté Zephair Mattress. Whilst all care has been taken to comprehensively identify any risk associated with the operation of the Zephair Mattress, Forté Healthcare Solutions cannot be held liable for circumstances outside of its control including inappropriate device usage. We strongly recommend that for any clarification required by care staff or indeed anyone using the Zephair Mattress that appropriate consultation is made before using the device. Forté Healthcare cannot be held liable for patient outcomes due to clinical, circumstantial and care factors outside of its control.

OPERATION

1. The Zephair Mattress is designed to be used with the pump at all times
2. Position the Zephair Mattress on the bed in a manner that prevents trapping and/or damage. Pay careful attention to bed rails (if fitted) and ensure they will not rub excessively against the Zephair. Mattress damage as a result of incorrect fitment is not covered by warranty
3. It is preferable to mount the pump to the foot-end of the bed. The pump may be placed on the floor if needed. If the pump is placed on the floor it is important it is sufficiently protected from damage
4. Connect the pump to a power outlet. The Pump power lead may be located within the power cord loops on the side of the Zephair Mattress. Never use the Zephair Mattress if the power cord is in any way damaged
5. Visually inspect the pump before operation. If there is any evidence of damage or is defective, contact an authorised representative before use
6. To activate, turn the pump on by the top switch
7. Use the lower switch to set either Alternating or Static Therapy. Alternating Therapy will provide the greatest level of pressure injury protection
8. Use the weight gauge on the right hand side of the pump face to adjust the pump pressure to ensure the patient is sufficiently supported by the Zephair System
9. Ensure Mattress Zipper remains closed at all times, only open for necessary inspection or maintenance
10. Ensure foam core is not exposed for extended periods of time to UV light
11. Ensure the pump is not used within a wet environment or where there is risk of the pump coming in contact with water or liquid
12. Ensure the outer covering is protected against damage by penetration of sharp objects. Damage sustained to the cover as a result of puncture by sharp objects is not covered under warranty
13. Regular observations must be made of the Zephair system whilst in operation to ensure that there is no device malfunction or damage that will impact the patient in a negative manner
14. Do not use the Zephair near fire sources or excessive heat. Product damage caused by heat damage e.g. cigarette burns will not be covered by warranty.

PATIENT SAFETY & CARE

MAXIMUM PATIENT WEIGHT CAPACITY

- » 180kg

THERAPEUTIC FEATURES

- » Alternating 1:2 Cell System for pressure redistribution
- » Narrow Cell Design minimising patient disturbance
- » Quiet Pump Pperation minimising patient discomfort
- » Dual Interface Immersion foams provide comfort, reduce 'alternating sensation/motion discomfort', stabilise temperature and provide envelopment
- » Sloped heel region for added pressure relief for susceptible heels
- » Firm Strengthened Sides for lateral stability and support during repositioning and patient transfer
- » Adjustable Patient Weight gauge for comfort and appropriate care.

1. The Premiflex Ultra outer covering is waterproof yet vapour permeable. The outer covering provides a hygiene barrier for the inner air and foam system. The outer covering alone is not designed as an ongoing continence barrier nor is it a substitute for continence care products such as pads
2. Patients must be positioned correctly to avoid risk of suffocation
3. Avoid using excessive layers of bedding and/or covers as this can negatively impact the vapour permeability and pressure redistribution/relief properties of the Zephair system
4. Continual routine monitoring is required for patients on the Zephair system. Clinical judgement must be used to ensure sufficient frequency of intervals
5. The Zephair is not intended to be used in substitution of necessary patient care practices such as adequate nutrition, repositioning, sufficient continence management, nursing care as required and wound/skin dressings, ointments and creams as deemed clinically appropriate
6. Ensure the Zephair is cleaned regularly for patient hygiene and infection control. Refer to cleaning guidelines for recommended cleaning procedure and cleaning agents.

TROUBLE-SHOOTING

1. Should the Low Pressure Alarm sound and/or Low Pressure Indicator be illuminated on the Pump Control Face, perform the following inspection:

- A.** Check Air Supply Leads from the mattress are connected correctly to pump
- B.** Check CPR Port and ensure it is correctly fastened closed
- C.** Check Air Supply Leads for any damage

Should the fault persist, unzip the outer cover and lower compartment of inner cover and perform the following inspection:

- D.** Check Air-Cells for any puncture by a sharp object. A quick check can be to inspect the underside of the top cover as this will show any stain caused by fluid penetration through the cover if a sharp object has penetrated
- E.** Check Air Cell connections are secure and are not leaking
- F.** Should faults persist, contact your distributor or Forté Healthcare for further assistance.

2. Cell/s are not Inflating:

- A.** Unzip the outer cover and base compartment of inner cover
- B.** Identify the cell/cells
- C.** Inspect the system for any air tube connectors that may have become loose or may be leaking
- D.** Reconnect any air cells or connectors that require it
- E.** Replacement connectors and parts are available as spare parts if required.

3. Bunching Foam Immersion Layer

The Zephair Immersion layer is contained within a pocket of the Anti-Shearing Inner Cover. This layer is designed to move independently to the Air Cells which reduces shear and friction forces.

Occasionally the Immersion Layer on the Zephair may 'bunch'/get stuck between air cells and will require the caregiver to 'smooth it out', much like a blanket. This effect is normal and quick to adjust.

If this has occurred, it is generally as a result of the backrest being raised at a certain stage in the cell alternating cycle together with either the user off the mattress or not in normal lying position.

It is corrected by simply unzipping the Outer Cover and upper compartment of the Inner Cover. The Immersion foam smoothed out and both zips fastened back together.

MATTRESS CARE

MAINTENANCE

- » Regularly assess for soiling. Refer to the following pages for cleaning instructions
- » If the product is used directly upon or in contact with a bed surface, periodically and ongoing assess the bed surface for any sharp objects that may cause damage to the mattress cover
- » Support Surfaces should not be lifted by the cover only. Support the foam core as well as the cover
- » Ensure zipper remains closed at all times whilst mattress is in usage
- » Ensure foam core is not exposed for extended periods of time to UV light
- » Always disconnect the pump from electrical power before beginning maintenance or repair work. Never attempt to work on a pump that has been in contact with water/liquid without consulting an approved technician
- » Use of unauthorised spare parts and/or accessories may void warranty.

FOAM CORE CLEANING

- » The outer covering protects the foam core, which means cleaning of the core seldom is necessary. Should the foam core need to be cleaned, clean affected area with a mild cleaning chemical and water (eg spray on).
- » Gently press out excess water
- » Allow the foam core to dry completely in a ventilated area avoiding direct exposure to sunlight as UV light can affect foam performance
- » Ensure that the foam core is completely dried before using mattress.

COVER CLEANING

- » Wipe off cover with an approved cleaning chemical (refer to approved chemical listing). Excrement, blood spots, spills of any kind must be removed immediately with an approved cleaning agent or soapy warm/cold water
- » Cleaning chemical usage instructions must be followed
- » Usage of high concentrations of Phenol-based and Chlorine chemicals and abrasive cleaning agents can have a negative impact on the integrity of the mattress fabric coatings. Forté Healthcare stipulates a maximum chlorine concentration of 1000ppm for all standard fabrics if it must be used for cleaning/disinfection
- » All residue of cleaning agents should be completely dried from fabrics shortly after cleaning
- » Sterilisation might have a negative effect on polyurethane coatings and is therefore not recommended. If one does decide to do so, a reduced lifetime of the product should be taken into account. This is inevitable for all thermoplastic polyurethanes, due to their chemical nature.

QUILTED FABRIC

CLEANING & CARE - LUXURY QUILTED HOMECARE



WASHING

- » Machine Wash **NOT** recommended as it may affect stretch of the fabric.
- » Gently clean superficial dirt, staining or body fluids from mattress cover with damp cloth. Gently sponge dry with soft cloth.
- » If stain and dirt remains, gently wash in tub of warm soapy water.



DRYING

- » Tumble dry **NOT** recommended as it may affect stretch of the fabric.
- » Hang the mattress cover to drip dry.



PU-COATED FABRICS

CLEANING & CARE - ADVANTIFLEX & ADVANTIFLEX CLASSIC COVERS



WASHING

- » Washing (95°C) must be done with neutral detergents - softening agents are not allowed.
- » Un-dyed fabrics may be washed following the ISO 6330 norm, part 9A and dyed fabrics following the ISO 6330 norm, part 3A.



DISINFECTION

In general our PU-coated covers resist very well to Alcohol-Based Disinfectants.

- » Phenol or Phenol Derivate can also be used in diluted concentrations (follow the recommendations of the disinfectant manufacturer). Nevertheless, we always advise to test the concerning product before using it.
- » We do not recommend using high concentrations of Active Chlorine as it may have a negative effect on the fabric, if you are to use it we advise it is strongly diluted and the cover is extensively rinsed with water.
- » The same is valid for Peroxide-Based Disinfectants, and, in general, all disinfectants based on an oxidising reaction mechanism. A study of several surface disinfectants is available upon your request.



STERILISATION - NOT RECOMMENDED

- » Sterilisation is not recommended as it may have a negative effect on Polyurethane Coatings possibly reducing the durability of the cover. This is inevitable for all Thermoplastic Polyurethanes, due to their chemical nature.



DRYING

- » Adequate drying is a crucial factor in the care and maintenance of coated fabrics.
- » Drying may be effected by hanging out, spinning or tumbling at temperatures up to 60°C - DO NOT press or mangle.



STORAGE

- » Store in a dry area, at room temperature.
- » Avoid excessive pressure and contact with Non-Colourfast Materials.
- » Try not to expose the PU-coating to excessive sunlight (UV-Radiation).

PVC-COATED FABRICS

CLEANING & CARE - ADVANTIFLEX CLASSIC & PREMIFLEX CLASSIC COVERS



WASHING

- » Washing (40°C or 95°C) must be done with Neutral Detergents; Softening Agents are not allowed.
- » Un-dyed fabrics may be washed following the ISO 6330 norm, part 9A and dyed fabrics following the ISO 6330 norm, part 3A.



DISINFECTION

In general, the PVC-coated products resist well to most of the currently used surface disinfectants. Nevertheless, we advise to test the particular surface disinfectant in advance or to contact us in case of doubts. It is not recommended to autoclave or sterilise PVC-coated products.



DRYING

- » Adequate drying is a crucial factor in the care and maintenance of coated fabrics.
- » Drying may be effected by hanging out, spinning or tumbling at temperatures up to 60°C - DO NOT press or mangle.



STORAGE

- » Store in a dry area, at room temperature.
- » Avoid excessive pressure and contact with non-colourfast materials.
- » Try not to expose the PVC-coating to excessive sunlight (UV-Radiation).

PFFU-COATED FABRICS

CLEANING & CARE - PREMIFLEX CLASSIC & ULTRA COVERS



WASHING

- » Washing (95°C) must be done with neutral detergents - softening agents are not allowed.
- » Un-dyed fabrics may be washed following the ISO 6330 norm, part 9A and dyed fabrics following the ISO 6330 norm, part 3A.
- » Premiflex covers can easily be washed > 100 times at 95°C (excluding possible physical damage of the coating due to contact with sharp metal parts in the washing machine).



DISINFECTION

In general, Premiflex covers resist extremely well to all kinds of disinfectants. Nevertheless, we advise to test the particular surface disinfectant in advance or to contact us in case of doubts. Generally, surface wiping can be done numerous times without problems with the following commonly used products:

- » Alcohol based disinfectants.
- » Phenol based disinfectants.
- » Disinfectants based on quaternary ammonium.
- » Active chlorine based disinfectants (> 100 times 5000 ppm). Please always keep in mind to rinse the cover extensively with pure water after using chlorine.
- » Chloramine based disinfectants.
- » Peroxyde based disinfectants.



STERILISATION / AUTOCLAVATION

- » Premiflex covers have the best possible resistance against autoclave sterilisation.
- » Premiflex covers have been tested and approved after 50 cycles autoclave at 134°C



DRYING

- » Adequate drying is a crucial factor in the care and maintenance of coated fabrics.
- » Drying may be effected by hanging out, spinning or tumbling at temperatures up to 130°C (inlet temperature hot air).
- » Premiflex covers have been tested and approved after 50 cycles tumbler drying at 130°C - DO NOT press or mangle.



STORAGE

- » Store in a dry area, at room temperature.
- » Avoid excessive pressure and contact with non-colourfast materials.
- » Try not to expose the PU-coating to excessive sunlight (UV-radiation).

APPROVED CLEANING AGENTS

CLEANER / CHEMICAL	CONCENTRATION		APPROVED FORTÉ COVERS
3M TB Quat Disinfectant	Ready to use		Advantiflex/Premiflex
ABC Compounding Co Aero Stain Away	According to Manufacturers Spec		Premiflex
Agar Chloradet	1:160 Water	1:1000 Water	Advantiflex/Premiflex
Alco-DC-7	According to Manufacturers Spec		Advantiflex/Premiflex
Alco Sanni-Rinse	According to Manufacturers Spec		Advantiflex/Premiflex
Ameriderm Laboratories Care Source Disinfectant	According to Manufacturers Spec		Premiflex
Anios Surfa 'Safe'	According to Manufacturers Spec		Premiflex
Anti-Slip Anywhere Multi Kleen	According to Manufacturers Spec		Premiflex
Apollo Cid A-L Ii Quaternary Disinfectant	According to Manufacturers Spec		Advantiflex/Premiflex
Apollo Hygena	According to Manufacturers Spec		Advantiflex/Premiflex
Apollo Therasol	According to Manufacturers Spec		Advantiflex/Premiflex
Apollo Turbo Clean	According to Manufacturers Spec		Advantiflex/Premiflex
Arjo Disinfectant Cleanser IV	According to Manufacturers Spec		Advantiflex/Premiflex
Biomed Steriplex Sd Disinfectant Sporicide Wipes (without Bleach)	According to Manufacturers Spec		Advantiflex/Premiflex
Bioscience Fresche Surface Plus	According to Manufacturers Spec		Premiflex
Brighton Hepastat 256	According to Manufacturers Spec		Premiflex
Buckeye Eco E23 S23	256 to 1 Dilution with Water		Advantiflex/Premiflex
Buckeye Sanicare TBX	According to Manufacturers Spec		Premiflex
Buckeye Sanicare Disinfectant Wipes	Ready to use		Premiflex
Buckeye Terminator One Step Disinfectant	Ready to use		Premiflex
Certo Non Acid Bathroom Cleaner	According to Manufacturers Spec		Premiflex
Cidal Disinfectant Cleaner	According to Manufacturers Spec		
Clinell Hand & Surface Sanitiser	According to Manufacturers Spec		Advantiflex/Premiflex
Clinell Detergent Wipes	According to Manufacturers Spec		Advantiflex/Premiflex
Clinell Sporicial Wipes	According to Manufacturers Spec		Advantiflex/Premiflex
Clinell Universal Disinfectant Wipes	According to Manufacturers Spec		Advantiflex/Premiflex
Clorox Bleach Wipes	According to Manufacturers Spec		Premiflex
Clorox Disinfecting Wipes	Ready to use According to Manufacturers Spec		Advantiflex/Premiflex
Clorox Dispatch Disinfectant	According to Manufacturers Spec		Advantiflex/Premiflex
Clorox Fuzion	According to Manufacturers Spec		Advantiflex/Premiflex

APPROVED CLEANING AGENTS

CLEANER / CHEMICAL	CONCENTRATION		APPROVED FORTÉ COVERS
Delaval Acid Wash	1:20 Water		Premiflex
Distel Surface Disinfectant	According to Manufacturers Spec		Advantiflex/Premiflex
Dupont Virkon	1:20 Water	1:100 Water	Advantiflex/Premiflex
Ecolab A-456-li	1:64 Water		Advantiflex/Premiflex
Ecolab Actichlor Plus	2000ppm	10,000ppm	Premiflex
Ecolab Actichlor Plus	2000ppm		Advantiflex
Ecolab Asepti Active Liquid	According to Manufacturers Spec		Advantiflex/Premiflex
Ecolab Asepti Active Wipes	Ready to use		Advantiflex/Premiflex
Ecolab Chlorwhite	1:100 Water		Premiflex
Ecolab Incidin Extra	According to Manufacturers Spec		Premiflex
Ecolab Incidin Foam	According to Manufacturers Spec		Premiflex
Ecolab Incidin Plus	According to Manufacturers Spec		Premiflex
Ecolab Oasis Pro 12 Neutral Cleaner	1:20 Water		Premiflex
Ecolab Oxycide	According to Manufacturers Spec		Premiflex
Ecolab Spring Clean	1:20 Water		Advantiflex/Premiflex
Ecolab Cleantec Nature Clean	1:38 Water		Premiflex
Hartmann Sterillium	According to Manufacturers Spec		Premiflex
Helix Solutions Chlor-Clean	1000ppm (1 Tablet Per 1l Water)		Premiflex
Hu-Friedy Sporeclear Rtu Spray Or Wipes	Diluted At 8% Into Water		Premiflex
Hunters Tri-Det	1:80 Water		Premiflex
Hydrogen Peroxide 5%	Ready to use		Premiflex
Isopropyl Alcohol 70%	Ready to use		Premiflex
Kimberly-Clark Isowipes	Ready to use		Advantiflex/Premiflex
Legge Legcide HB Plus	According to Manufacturers Spec		Premiflex
Livingstone Liv-Wipes Jumbo	Ready to use		Premiflex
Medline Micro-Kill AF2 Disinfecting Deodorizing Cleaning Wipes	Ready to use		Premiflex
Metrex Cavicide	According to Manufacturers Spec		Advantiflex/Premiflex
Metrex Cavicide1	According to Manufacturers Spec		Advantiflex/Premiflex
Milton Anti-Bacterial Tablets	1 Tablet : 2l Water		Advantiflex/Premiflex
Noble Pine Steri-Fab	According to Manufacturers Spec		Advantiflex/Premiflex
Odorxit Naturals Odor Eliminator Spray	Ready to use		Premiflex

APPROVED CLEANING AGENTS

CLEANER / CHEMICAL	CONCENTRATION	APPROVED FORTÉ COVERS
PAL Detergent Wipes	Ready to use	Premiflex
PAL Disinfectant Wipes	Ready to use	Premiflex
PCS 7000	According to Manufacturers Spec	Advantiflex/Premiflex
PCS Spray & Wipe Hand And Surface Cleaner	Ready to use	Advantiflex/Premiflex
PDI Super Sani Cloth Germicidal Disposable Wipes	Ready to use	Advantiflex/Premiflex
Pro Restore Microban X-590 Institutional Spray	Ready to use	Premiflex
Puregreen 24	According to Manufacturers Spec	Advantiflex/Premiflex
Quantum Pacific Antimax	According to Manufacturers Spec	Advantiflex/Premiflex
Reynard Neutral Detergent Wipes	Ready to use	Advantiflex/Premiflex
Reynard Surface Sanitising Wipes	Ready to use According to Manufacturers Spec	Advantiflex/Premiflex
Schulke & Mayr Kodan Tinkture Forte	According to Manufacturers Spec	Premiflex
Schulke & Mayr Ocetenisept	According to Manufacturers Spec	Premiflex
Sealed Air Diversey Care Divercleanse	3.1:100 Water	Advantiflex/Premiflex
Sealed Air Diversey Care Oxivir TB Liquid & Wipes	Ready to use	Premiflex
Sealed Air Diversey Care Room Care R2l	According to Manufacturers Spec	Advantiflex/Premiflex
Sealed Air Diversey Care Stride Citrus Smartdose	1:750 Water	Premiflex
Sealed Air Diversey Care Stride Hc (Jf)	According to Manufacturers Spec	Premiflex
Sealed Air Diversey Care Suma San Conc D4a	According to Manufacturers Spec	Premiflex
Sealed Air Diversey Care Virex li 256	1:256 Water	Advantiflex/Premiflex
Sodium Hypochlorite	1.3:100 Water	Premiflex
Spartan Bnc-15	According to Manufacturers Spec	Advantiflex/Premiflex
Spartan Gs Neutral Disinfectant #3502	According to Manufacturers Spec	Advantiflex/Premiflex
Spartan Hdq C2	According to Manufacturers Spec	Advantiflex/Premiflex
Spartan Super Hdq Neutral	256 to 1 Dilution with Water	Advantiflex/Premiflex
Spring Clean (Eco Lab)	5% Spring Clean (1:20 Water)	
Steri-7 S-7 Xtra Wipes	Ready to use	Advantiflex/Premiflex
Sterri-Matt (Pure) Foam	Ready to use	Advantiflex/Premiflex
Sulco Medi wipes	Ready to use	Premiflex

APPROVED CLEANING AGENTS

CLEANER / CHEMICAL	CONCENTRATION	APPROVED FORTÉ COVERS
Surehands Turbo Cleaner		
Synergy Health Azomax Multi Surface Wipes	Ready to use	Advantiflex/Premiflex
Synergy Health Azowipe Hard Surface Wipes	Ready to use	Advantiflex/Premiflex
True Blue Chemicals (use all)	According to Manufacturers Spec	Advantiflex/Premiflex
Trix (Soap)	Ready to use	Advantiflex/Premiflex
Velocity Eco-Pine	1:20 Water	Advantiflex/Premiflex
Verna Tuffle 5 Cleaning Wipes	Ready to use	Advantiflex/Premiflex
Wexford Labs Wexcide 128	Minimum 128 to 1 Dilution with Water	Advantiflex/Premiflex
Whiteley Medical Lemex	According to Manufacturers Spec	Premiflex
Whiteley Medical Odacon Spray	According to Manufacturers Spec	Premiflex
Whiteley Medical Viraclean	According to Manufacturers Spec	Advantiflex/Premiflex

CAUTION

- » To avoid premature degradation of the surface coating never use an abrasive cloth, sponge or other similar device on the surface. Wipe off cleaning product residue with a clean, soft cloth and rinse with fresh warm water immediately after use. Allow the surface to dry completely before use.
- » Cleaners/disinfectants can cause discolouration/bleaching on some colours. To avoid discolouration, always check on a small area first.
- » Information contained here is purely related to the compatibility of cleaners with Forté Healthcare cover materials and in no way relates to the efficacy of any cleaner for infection control or the safety of any cleaner for skin contact.
- » Testing information is specific to the products or formulations listed and in no way constitutes approval for other products from any brand listed without being tested.
- » All approvals are based on manufacturer recommended dilution with water unless otherwise specified and approval is void for any improper dilution.
- » If a particular cleaner/disinfectant is not listed, we advise to test the specific product in advance or contact us to conduct testing.





GLOBAL TECHNOLOGY
AUSTRALIAN MADE

All mattresses are made by
Forté Healthcare in Armidale
NSW in accordance with all
Australian manufacturing
and clinical standards.

